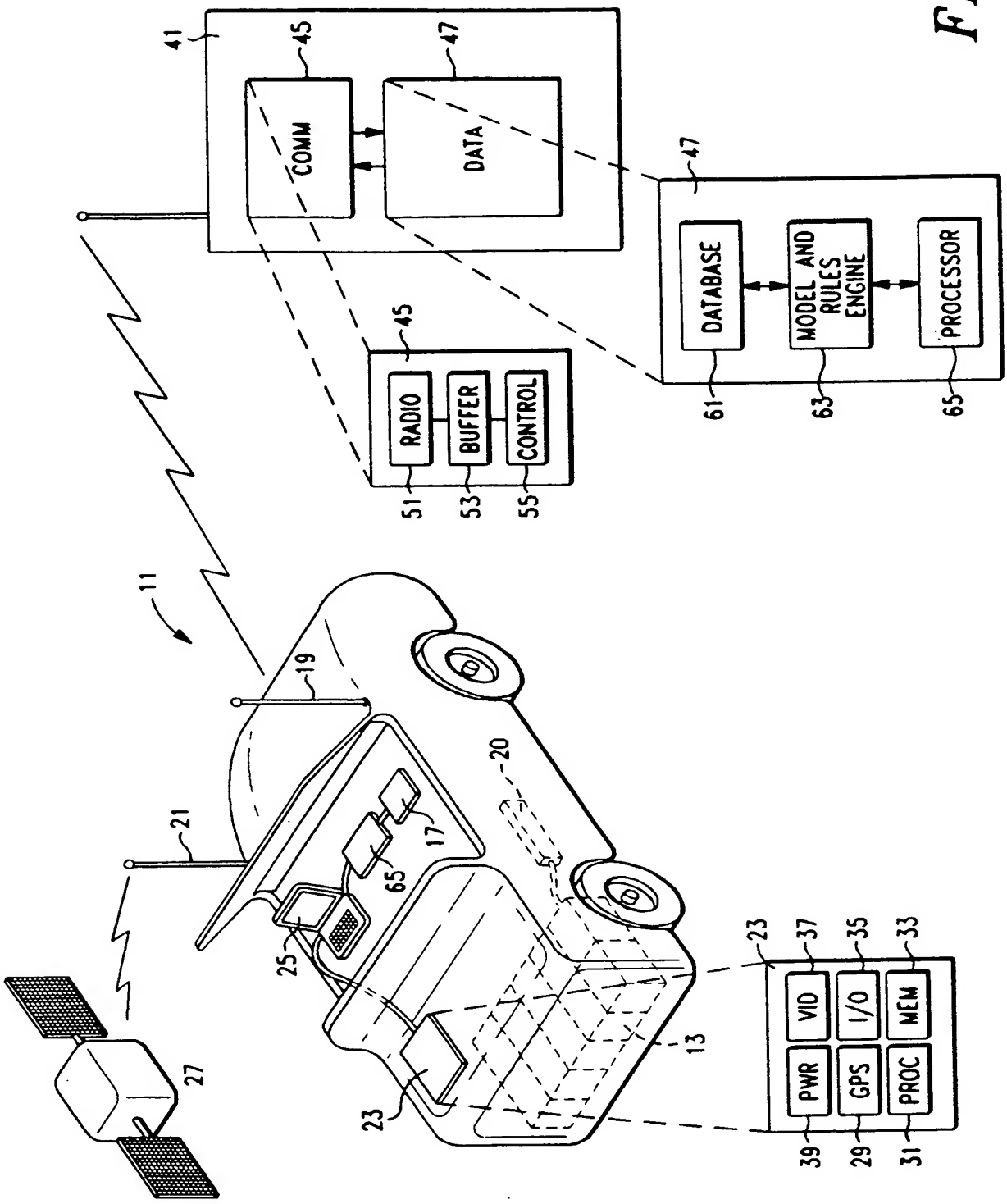
41
45
COMM
47
DATA
47
DATABASE
MODEL AND RULES ENGINE
PROCESSOR
61
63
65
45
RADIO
BUFFER
CONTROL
51
53
55
11
19
20
21
17
65
25
23
13
27
23
VID
I/O
MEM
PWR
GPS
PROC
37
35
33
39
29
31

FIG.—1

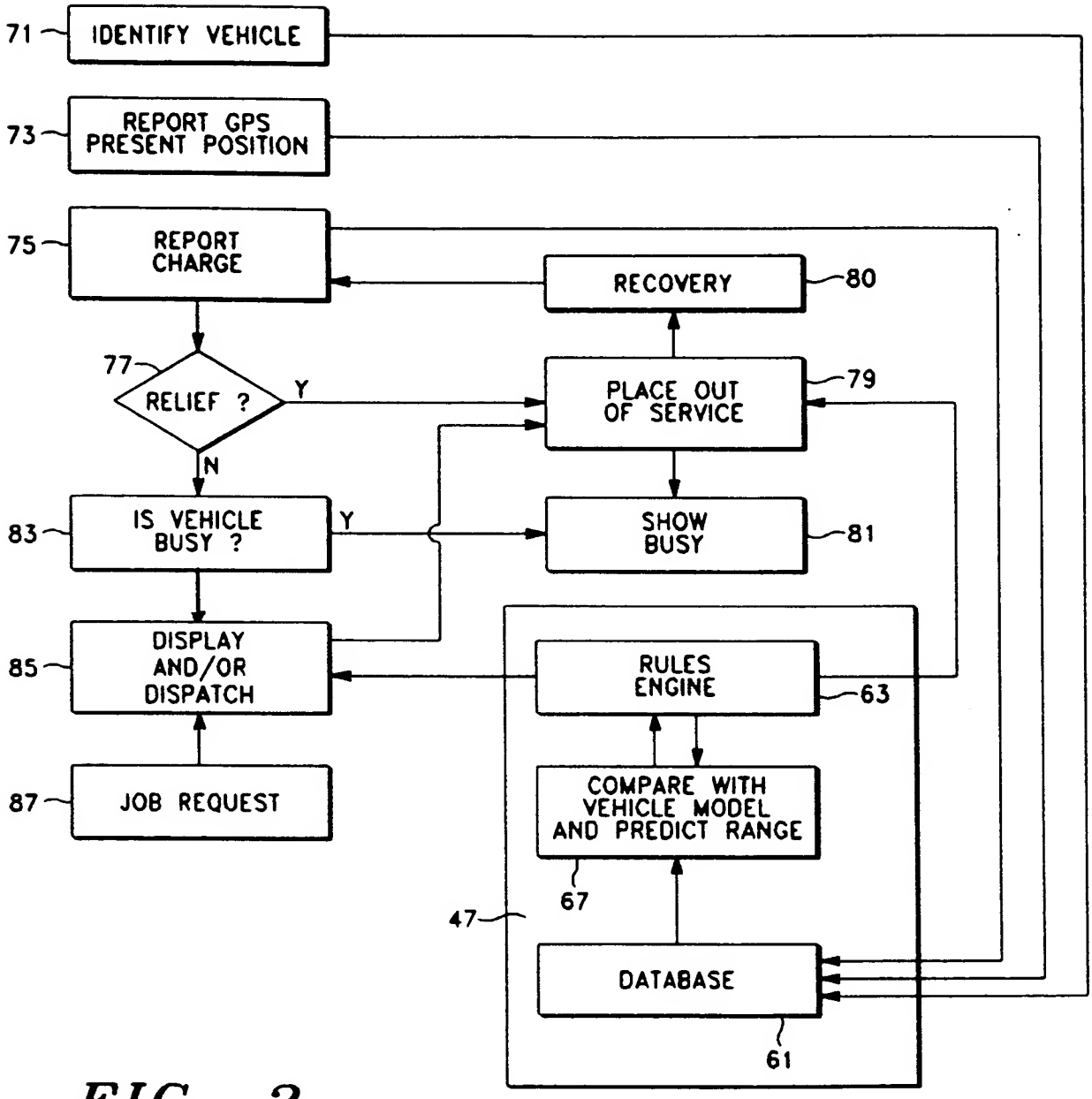
71
IDENTIFY VEHICLE
73
REPORT GPS PRESENT POSITION
75
REPORT CHARGE
RECOVERY
80
77
RELIEF ?
Y
N
PLACE OUT OF SERVICE
79
83
IS VEHICLE BUSY ?
Y
SHOW BUSY
81
85
DISPLAY AND/OR DISPATCH
RULES ENGINE
63
87
JOB REQUEST
COMPARE WITH VEHICLE MODEL AND PREDICT RANGE
67
47
DATABASE
61

FIG.–2

High Efficiency		Medium Efficiency		Low Efficiency	
kW-Hrs	Miles Left	kW-Hrs	Miles Left	kW-Hrs	Miles Left
6.0	60	6.0	50	6.0	40
5.8	58	5.8	48	5.8	39
5.6	56	5.6	47	5.6	37
5.4	53	5.4	44	5.4	35
5.2	50	5.2	42	5.2	33
5.0	48	5.0	40	5.0	32
4.8	46	4.8	38	4.8	31
4.6	44	4.6	37	4.6	29
4.4	41	4.4	34	4.4	27
4.2	38	4.2	32	4.2	25
4.0	36	4.0	30	4.0	24
3.8	34	3.8	28	3.8	23
3.6	32	3.6	27	3.6	21
3.4	29	3.4	24	3.4	19
3.2	26	3.2	22	3.2	17
3.0	24	3.0	20	3.0	16
2.8	22	2.8	18	2.8	15
2.6	20	2.6	17	2.6	13
2.4	17	2.4	14	2.4	11
2.2	14	2.2	12	2.2	9
2.0	12	2.0	10	2.0	8
1.8	10	1.8	8	1.8	7
1.6	8	1.6	7	1.6	5
1.4	5	1.4	4	1.4	3

FIG.-3

VEHICLE ID & TIME	N1,1730	N2,1713	N3,1714	N4,1740	N5,1722
OUTPUT VOLTS	67.0	68.0	72.0	58.0	61.0
OUTPUT AMPS	41.0	36.0	15.0	39.0	48.0
KW-Hrs Remaining	4.1	4.3	5.1	1.6	3.3
CELL 1 VOLTS	11.3	11.3	12.1	9.9	10.3
CELL 2 VOLTS	11.1	11.2	12.2	10.1	9.6
CELL 3 VOLTS	11.2	11.6	11.8	9.6	10.0
CELL 4 VOLTS	11.3	11.0	12.1	9.2	9.9
CELL 5 VOLTS	11.0	11.2	12.1	9.7	10.5
CELL 6 VOLTS	11.1	11.7	11.7	9.5	10.7
GPS OK? Y/N	y	y	y	y	y
GPS LONGITUDE	10,12,1	10,13,8	10,12,7	10,12,9	10,13,1
GPS LATITUDE	42,40,12	42,40,30	42,39,59	42,38,55	42,39,44
CELL 1 TEMP	90	88	90	98	94
CELL 2 TEMP	90	90	91	99	96
CELL 3 TEMP	90	90	90	95	95
CELL 4 TEMP	90	90	91	97	93
CELL 5 TEMP	90	90	91	96	96
CELL 6 TEMP	90	90	90	99	95
BUSY? Y/N	y	y	n	n	y
LIGHTS? Y/N	n	y	y	y	y
Speed	25	21	12	23	25
Odometer	0.3	0.2	0.3	0.3	0.3

FIG.-4